

In the Claims

Substitute the following clean copy text for the pending claims of the same number.

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46. (Twice amended) A process for the preparation of urethane resins comprising the steps of

(1) reacting a compound(a) having a hydrolyzable group selected from the group consisting of alkoxy and acetoxy groups directly bonded to 1 to 10 silicon atoms and having an organic group(I) selected from the group consisting of primary amino, secondary amino and acryloyl groups, with a compound(b) being capable of reacting with said organic group(I) to form a secondary amino compound selected from: acrylate, acryloxysilane, monomaleimide, and maleic anhydride, in order to produce a product(A) having said hydrolyzable group directly bonded to 1 to 10 silicon atoms and having less than two secondary amino groups in one molecule;

(2) reacting a polyisocyanate compound (compound(d)), with a compound selected from the group consisting of: a polyol compound (compound(c)), a polythiol compound (compound(c-1)), and a compound (product(C)) having a number average molecular weight of 100-25000 and having at least 0.2 terminal secondary amino groups in one molecule, in order to produce a (thio)urethane pre-polymer (product(B)) having a terminal isocyanate group in an amount of 4 % or less by weight of said product(B), wherein said product(C) is obtained by reacting a compound(e) having an organic group(II) having a number average molecular weight of 100-25000 selected from the group consisting of amino and acryloyl groups, with a compound(f) being capable of reacting with said organic group(II) to form a secondary amine compound; and

(3) reacting said product(A) with said product(B) in the proportions of at least 0.5 equivalent of said product(A) per free isocyanate group of said product(B).

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